

## Research Question

Does bias exist in COVID-19 case reporting and case-fatality risk (CFR) estimates?

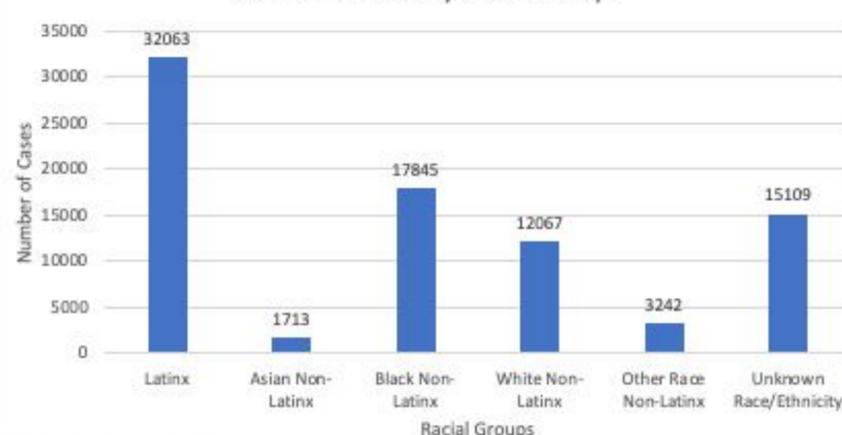
## Overview

- Analysis of the disparities in the reporting COVID-19 cases, deaths, and hospitalizations in Chicago, Illinois, grouped by gender, age, and race.
- Data are limited from 3/1/2020 to 10/4/2020.
  - [data.cityofchicago.org](https://data.cityofchicago.org) through [data.gov](https://data.gov)

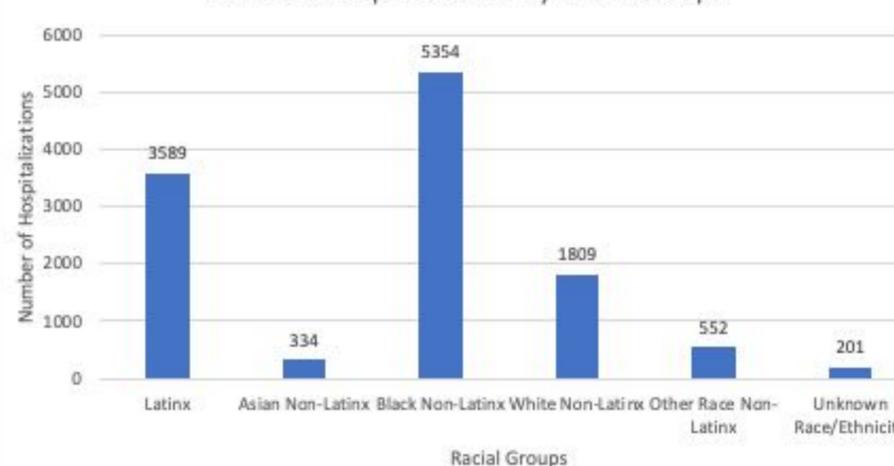
## Case-Fatality Risk (CFR)

- COVID-19 CFR estimates the probability that a person will die from their infection.
- Reporting is biased due to racial inequalities and preferential bias in CFR estimates.
- CFRs between different demographic groups influence policy decisions concerning how health care resources are administered during the COVID-19 pandemic.

COVID-19 Cases by Racial Groups



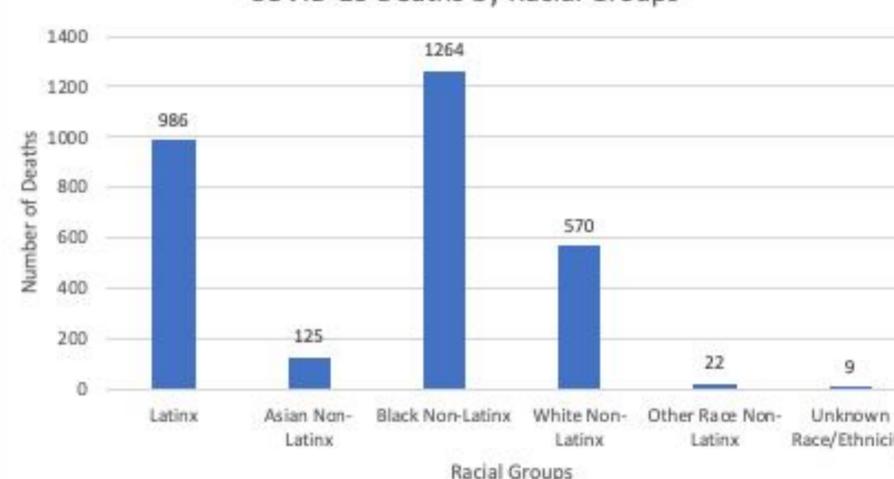
COVID-19 Hospitalizations by Racial Groups



## Conclusion

There were discrepancies in COVID-19 reporting of cases, deaths, and hospitalizations based on gender, age, and race.

COVID-19 Deaths by Racial Groups



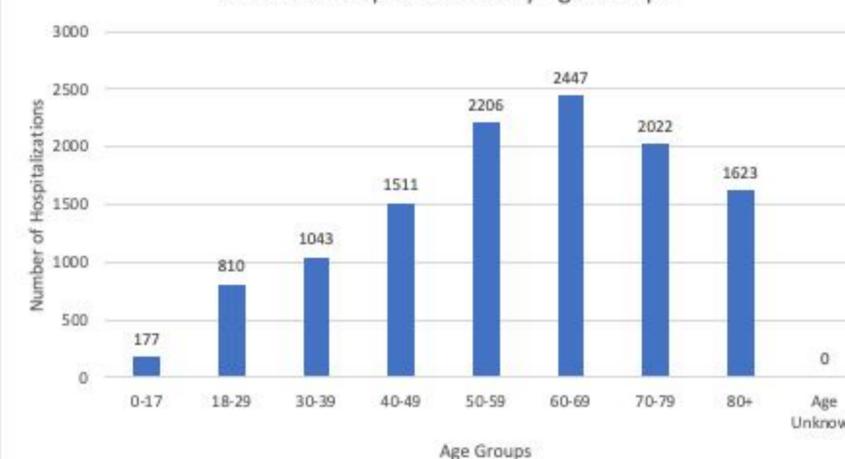
## Media & COVID-19 Pandemic

- Exposed long-standing inequities by race, gender, and age.
- The media spreads biased and misleading information about COVID-19 to the public.
- Implement constant supervision of the effects of the pandemic on low-income and black communities.

## Results

- More reported COVID-19 deaths from people who are Black Non-Latinx than from any other racial group.
- More reported COVID-19 hospitalizations for people who are Black Non-Latinx than from any other racial group.
- More reported COVID-19 hospitalizations for people who are ages 60-69 than from any other age group.

COVID-19 Hospitalizations by Age Groups



## Discussion

- COVID-19 case reporting is biased due to racial inequalities in case-fatality risk (CFR) estimates.
- COVID-19 is disproportionately killing people of color.
- Racially biased discrimination increases risk of minority groups becoming sick and dying.
  - We must center diverse communities that deserve quality health care services.
- The U.S. is unprepared to deal with a national health crisis and address the basic needs of all people during the COVID-19 pandemic.

Works Cited QR Code



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